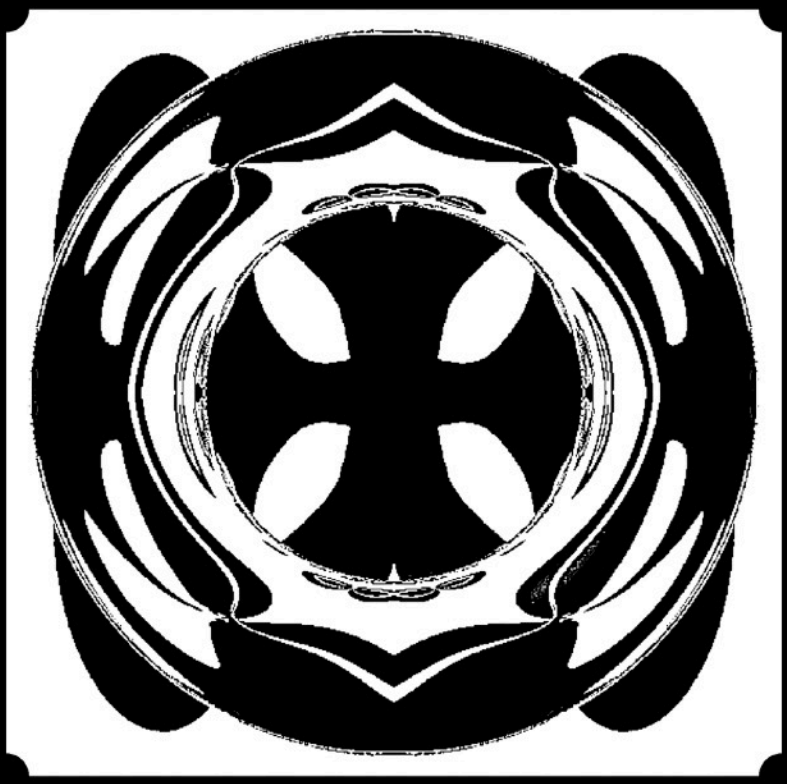
THE QUADRATRIX



OF CONSENT

SUM BUNNY

The Quadratrix of Consent

How Curvature Appears When Continuous Lives Are Sampled by Discrete Power

By Sum Bunny

2026

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The Quadratrix of Consent

How Curvature Appears When Continuous Lives Are Sampled by Discrete Power

By Sum Bunny

A photograph of an airplane propeller taken with a rolling-shutter camera often shows something physically impossible. The blades appear detached, bent into smooth, scimitar-like curves.

The blades are straight. The sensor is working. The curve is real—but it is a **recording truth**, not an object truth.

The curve does not belong to the object. It belongs to the **method of observation**.

A rolling-shutter camera does not capture a scene all at once. It scans the image line by line, over time. When a fast-moving object crosses that slow sampling process, each slice records a slightly different moment. The top of the blade is recorded a fraction of a second before the bottom.

The result is a curve.

This is a **sampling artifact**. In signal processing, it acts as a sibling to aliasing: a record produced when the "readout" speed of the observer is slower than the motion of the event. The sensor maps time into space, bending a straight blade into a visible arc.

The curve is a diagnostic signal. It warns us that the observer's frame rate has been outpaced by the subject's velocity.

I. The Geometry of Incompatibility

In geometry, there is a class of curves known as **quadratrices**. These are kinematic curves generated when two different types of motion—like rotation and linear translation—are forced to intersect. They appear when mathematicians try to solve dynamic problems using static tools.

The quadratrix is the artifact left behind when translation fails. It is the shape that forms when you force a continuous process through a rigid, incompatible framework.

This isn't a metaphor so much as a shared failure mode.

The claim here is not that society *is* a camera. The claim is that legal and economic systems are **sampling devices**. They translate the continuous flow of human life into the discrete records of institutional data.

- A camera samples light.
- A legal system samples choice.
- An economy samples consent.

Like the camera, these systems must decide: *What counts? When does it count? And what is ignored in the space between the samples?*

These decisions are not neutral. They are the shutter speed of society. Shutter speeds are not chosen at random; they stabilize around what institutions can administer cheaply and what power can tolerate seeing.

II. Continuity vs. The Snapshot

Human survival is a **continuous function**.

Hunger does not wait for a contract. Rent accumulates while you sleep. Health degrades on a gradient. The pressure to survive is a constant, unyielding flow.

However, our institutions function on **discrete logic**.

- **Employment:** You are hired or fired.
- **Legality:** You are compliant or non-compliant.
- **Consent:** You signed or you didn't.

Law takes snapshots. It records the moment of the signature. It records the exchange of money. It sees the decision points. But it does not record the slope of the curve *between* the points.

Sampling errors become ethically dangerous here, because what is lost between frames is **cumulative harm** rather than reversible variation.

When the continuous pressure of survival is forced through the discrete binary of a legal contract, **curvature appears**.

The result is the **Quadratrix of Consent**. It is the paradox where a person acts "voluntarily" according to the snapshot (the signature on the contract), but "involuntarily" according to the continuous reality (the threat of eviction or medical collapse).

The system points to the snapshot and says: *"Look, the blade is curved. They chose this."*

The reality shouts: *"The blade is straight. Your camera is too slow to see the coercion."*

III. The Performance of Stability

The danger is not just that the image is wrong. The danger is that the subject learns to **pose for the artifact**.

This is the "Feedback Loop" of aliasing. When we know the law only samples "The Signature," we optimize for the signature and hollow out the interior.

We perform the discrete moments of "sanity" or "consent" required to survive. Internally, we collapse.

We present the flat line the system wants to see. We hide the volatile sine wave of our actual experience. The curve is not just an error of observation; it becomes a camouflage strategy for the observed.

IV. The Twin Traps: Aliasing and Zeno

If the problem is a "low sampling rate," the obvious solution seems to be: *Increase the sample rate.*

This leads to the second trap.

If the 20th Century was the era of the **Quadratrix** (sampling too slow), the 21st Century is the era of the **Zeno Effect** (sampling too fast).

In physics, the Quantum Zeno Effect suggests that a system observed continuously can never evolve. In the gig economy and algorithmic management, this is no longer theoretical. When a worker is tracked by the second—every keystroke, every mile, every gaze—they are not "free" from aliasing. They are paralyzed.

This is not a literal quantum claim—only a warning that hyper-observation can freeze behavior by making every deviation expensive.

We are caught between two distinct failures of observation:

1. **Under-Sampling (The Bureaucrat):** The shutter is too slow. The system misses the coercion, creating the illusion of voluntary choice.

2. **Hyper-Sampling (The Algorithm):** The shutter is infinite. The system sees everything, creating a prison of constant performance.

V. Toward High-Fidelity Grammars

The solution is not to simply "watch closer." That leads to the Panopticon.

The solution is to **change what we measure**.

Low-fidelity grammars persist not because they are accurate, but because they are administratively cheap and politically safe. We need **High-Fidelity Grammars**, where "Fidelity" refers to the quality of the signal, not the frequency of the surveillance.

A High-Fidelity Grammar requires:

1. **Measuring Exit Power:** Consent is only valid if the refusal was possible without biological or social ruin.
2. **Tracking Duration:** Recognizing that "temporary" precarity compounds into permanent damage.
3. **Base-Layer Calibration:** Just as a sensor needs a calibrated zero-point, a legal grammar needs a survival baseline. If the baseline is zero (destitution), the instrument cannot measure "choice" accurately because the signal (preference) is drowned out by the noise (desperation).

We do not need more cameras. We need a system that understands the physics of the propeller.

The Final Diagnosis

The propeller was never bent. The worker was never irrational.

The most dangerous systems are not the ones that openly lie to us. They are the ones whose way of seeing is incompatible with the physics of living. When we see the curve—that familiar, uncomfortable shape of "I had no choice but to choose"—we must stop blaming the geometry.

Agency does not disappear under these grammars; it just becomes expensive, uneven, and selectively punished.

We must upgrade the camera without building a cage.

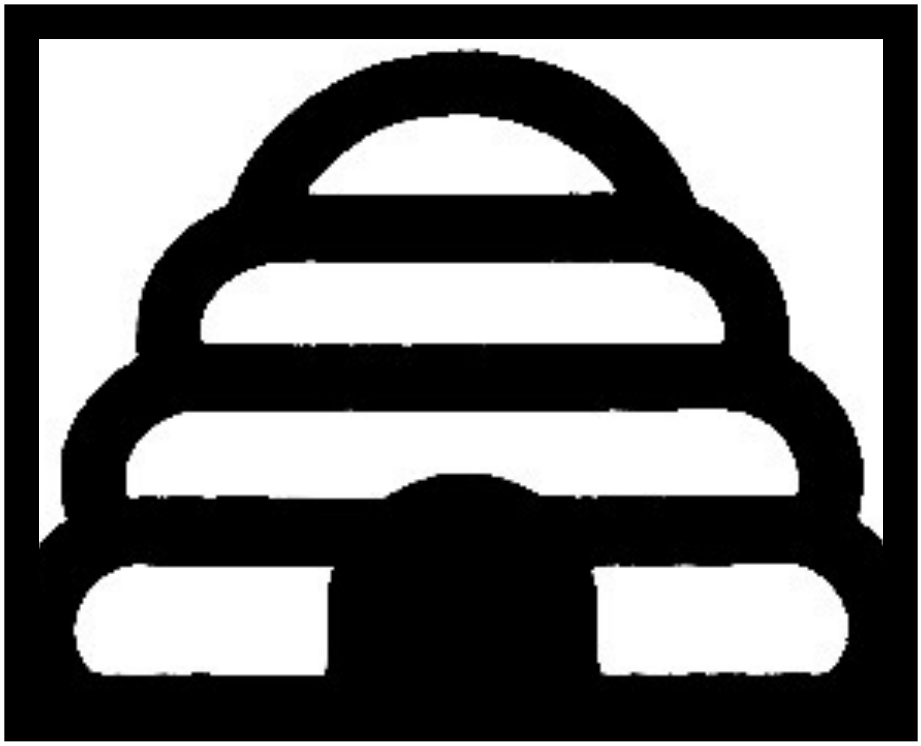
Canon Label:

A diagnostic theory of consent and institutional measurement.

First edition published on the Internet Archive, 2026.
Part of the Sum Bunny Canon (Ark Hive Press).

This was written through a collaboration between a human author and AI systems acting as analytical tools. The machines provided structure; the human provided judgment. Nothing appears here that the author did not personally create, refine, choose, and claim.

Hey Josiane,
You light up my mind.
Sum Bunny Loves You!!!



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